

July 31, 2003

Case No.: PHN 17,631 (7790/135)

Serial No.: 09/656,987

Filed: September 7, 2000

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CLAIM AMENDMENTS

Claims 1-10 are currently pending in the application.

Please cancel claims 1-10 without prejudice or disclaimer to the subject matter of claims 1-10.

Please add claims 11-24.

The following listing of claims 1-24 will replace all prior versions, and listings, of claims in the application:

1-10. (Cancelled)

11. (New) An electric lamp, comprising:
a light source (2) operable to emit a visible light;
a light-transmitting lamp vessel (1) accommodating said light source (2) whereby the visible light propagates through said light-transmitting lamp vessel (1); and
a light-absorbing coating (3) at least partially covering said light-transmitting lamp vessel (1) whereby the visible light propagates into said light-absorbing coating (3) from said light-transmitting lamp vessel (1), said light-absorbing coating (3) including
an organically modified silane network, and
a plurality of pigment particles dispersed through said organically modified silane network, said plurality of pigment particles for absorbing a first portion of the visible light propagating through said light-absorbing coating (3) without generating a light scattering of a second portion of the visible light propagating through said light-absorbing coating (3).

12. (New) The electric lamp of claim 11, wherein an average diameter of said plurality of pigment particles is less than 50 nm.

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13. (New) The electric lamp of claim 11,
wherein said light-absorbing coating (3) is in liquid form prior to be coated on
said light-transmitting lamp vessel (1); and
wherein said liquid form of said light-absorbing coating (3) includes
a hydrolysis mixture including said originally modified silane network,
and
at least one liquid mixture including a dispersion of said plurality of
pigments therein.

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cont*

14. (New) The electric lamp of claim 11, wherein said plurality of pigment particles
are dispersed throughout said organically modified silane network prior to the at least
partial covering of said light-absorbing coating (3) on said light-transmitting lamp vessel
(1).

15. (New) The electric lamp of claim 1, wherein said organically modified silane is
selected from a group formed by compounds of the following structural formula:
 $R^1Si(OR^{11})_3$,

wherein R^1 includes at least one of an alkyl group and an aryl group, and
wherein R^{11} includes an alkyl group.

16. (New) The electric lamp of claim 15, wherein the R^1 group includes at least one
of CH_3 and C_6H_5 .

17. (New) The electric lamp of claim 15, wherein the R^{11} group includes at least one
of CH_3 and C_2H_5 .

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18. (New) The electric lamp of claim 11, wherein a thickness of said light-absorbing coating (3) is equal to or greater than 1 μ m.

19. (New) The electric lamp of claim 11, wherein said organically modified silane network includes a plurality of silica particles.

20. (New) The electric lamp of claim 19, wherein each silica particle has a diameter less than or equal to 50nm.

21. (New) The electric lamp of claim 11, wherein said pigment particles are inorganic pigment particles.

22. (New) The electric lamp of claim 11, wherein said pigment particles are organic pigment particles.

23. (New) The electric lamp of claim 11, wherein said pigment particles include a mixture of inorganic pigment particles and organic pigment particles.

24. (New) The electric lamp of claim 11, further comprising:
a lamp housing (10) connected to said light-transmitting lamp vessel (1).

25. (New) The electric lamp of claim 11, further comprising:
a reflector (30) for reflecting the second portion of the visible light to generate a directed beam.